

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

**In the matter of approving a new ) Proposed Decision Regarding  
air contaminant source for ) Order No. 11AQ-C155  
Central Washington Health Services, Inc.)**

To: **Central Washington Hospital**  
**1201 South Miller Street**  
**Wenatchee, WA 98801**

Central Washington Health Services, Inc. is the owner and operator of Central Washington Hospital. This Order consolidates New Source Review requirements for the source's emission units, including: two 300 BHP dual-fuel boilers, one 400 BHP dual-fuel boiler, and three 1850 hp standby generators.

The emission units have the specified potential-to-emit (in tons per year):

Pollutant	2 – 300 BHP boilers	1 – 400 BHP boiler	3 – 1850 hp standby generators	TOTAL
Particulate Matter (incl., TSP = PM <sub>10</sub> = PM <sub>2.5</sub> )	0.66	0.54	0.12	1.31
Oxides of Nitrogen (NO <sub>x</sub> )	2.77	0.54	15.9	19.20
Carbon Monoxide (CO)	7.18	1.96	1.38	10.52
Volatile Organic Compounds (VOC)	0.47	0.21	0.18	0.87
Oxides of Sulfur (SO <sub>x</sub> )	0.07	0.10	0.46	0.62

The source is located at 1201 South Miller Street, within the NW ¼ of Section 15, Township 22 North, Range 20 E.W.M., in Wenatchee, Chelan County, Washington.

**THEREFORE, IT IS ORDERED** by the Department of Ecology that Central Washington Health Services' emission units, specified herein, are subject to the following conditions:

## 1 300-horsepower Output Burnham Boilers

Legal Authority: The two - 300 horsepower (11.946 MMBtu/hr) Burnham boilers, installed in 1996, qualified as new sources of air contaminants under WAC 173-400-110, March 22, 1995, and a new source of toxic air pollutants under WAC 173-460-040, January 14, 1994. The replacement of burners (with Weishaupt burners), in 2004, qualified as replacement or substantial alteration of emission control technology at an existing stationary source under WAC 173-400-114, July 11, 2002. These emission units were reviewed under the legal authority of RCW 70.94.152, and the applicable rules and regulations adopted thereunder. This Order

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supercedes Order No. DE 96AQ-C105, First Revision; Order No. DE 96AQ-C105, First Revision, is no longer in effect.

- 1.1 The boilers shall comply with all federal laws and regulations, including Title 40, Code of Federal Regulations (CFR) part 60, subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, June 13, 2007.
- 1.2 No fuel other than natural gas, Liquefied Petroleum Gas (LPG) or No. 2 distillate fuel oil with a sulfur content of 0.05% or less, by weight, shall be burned in the boilers. Oil blends that meet ASTM D 6751 specification for biodiesel blends may be used only if no condition in this Order will be violated. The permittee shall maintain a record of the quantity and specifications of each shipment of fuel oil, demonstrating that it meets the specifications contained in this Order.
- 1.3 Natural gas and LPF usage shall not exceed 853,500 therms per year per boiler.
- 1.4 Fuel oil shall be used in the boilers only as a back-up fuel, which means it will be burned only when natural gas is curtailed or for purpose of required testing and maintenance. Total fuel oil usage shall not exceed 2,000 gallons per year per boiler.
- 1.5 The Burnham boilers shall use low NO<sub>x</sub> burners. NO<sub>x</sub> emissions when burning natural gas or LPG in the boilers shall not exceed 30 parts per million (ppmv) corrected to 3% oxygen in the exhaust gas. NO<sub>x</sub> emissions when burning fuel oil in the boilers shall not exceed 65 ppmv corrected to 3% oxygen. Total NO<sub>x</sub> emissions from the boilers shall not exceed 0.05 pounds NO<sub>x</sub> per million Btu AND 1.20 pounds per hour.
- 1.6 Permittee shall employ proper combustion control and effective maintenance of the burners to keep CO emission below 50 ppmv corrected to 3% oxygen in the exhaust gas.
- 1.7 Visible emissions shall not exceed 10 percent opacity from any exhaust stack, averaged over a six-minute time period, as measured by Title 40 CFR Part 60, Appendix A, Method 9. No visible emissions shall be allowed beyond the property line.
- 1.8 The exhaust stacks for the Burnham boilers shall be at least 22.6 feet (6.9 meters) from ground level. Internal stack diameter shall be no greater than 19.5 inches
- 1.9 The following information shall be recorded for each Burnham boiler:
  - 1.9.1 Therms used per month per boiler.
  - 1.9.2 Date, time and durations of each boiler malfunction, and the corrective actions taken in response to each malfunction.
  - 1.9.3 Date, time and duration of each use of fuel oil. And, the quantity (in gallons) of fuel oil per use.

**Proposed Decision Regarding Notice of Construction Order No. 11AQ-C155****2 400-horsepower Output Cleaver Brooks Boiler**

Legal Authority: The 400 horsepower (16.329 MMBtu/hr) Cleaver Brooks Boiler, qualified as a new source of air contaminants under WAC 173-400-110, May 20, 2009, and a new source of toxic air pollutants under WAC 173-460-040, May 20, 2009. This emission unit was reviewed under the legal authority of RCW 70.94.152, and the applicable rules and regulations adopted thereunder.

- 2.1 The boilers shall comply with all federal laws and regulations, including Title 40, CFR part 60, subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, June 13, 2007.
- 2.2 No fuel other than natural gas, LPG or No. 2 distillate fuel oil with a sulfur content of 0.0015% or less, by weight, shall be burned in the boiler. Oil blends that meet ASTM D 6751 specification for biodiesel blends may be used only if no condition in this Order will be violated. The permittee shall maintain a record of the quantity and specifications of each shipment of fuel oil, demonstrating that it meets the specifications contained in this Order.
- 2.3 Natural gas and LPF usage shall not exceed 6570 hours per 12 month period.
- 2.4 Fuel oil shall be used in the boilers only as a back-up fuel, which means it will be burned only when natural gas is curtailed or for purpose of required testing and maintenance. Fuel oil use shall not exceed 33.7 gallons (approximately equal to 2 hours of full load operation) per 12-month period, except that, if natural gas is curtailed, the boiler may utilize more fuel oil as long as the fuel oil use of the combined boilers (i.e., 2-Burnham boilers + 1-Cleaver Brooks boiler) does not exceed 4033.7 gallons per 12-month period.
- 2.5 NO<sub>x</sub> emissions when burning natural gas or LPG in the boilers shall not exceed 9 parts per million (ppmv) corrected to 3% oxygen in the exhaust gas. NO<sub>x</sub> emissions when burning fuel oil in the boilers shall not exceed 70 ppmv corrected to 3% oxygen.
- 2.6 Permittee shall employ proper combustion control and effective maintenance of the burners to keep CO emission below 50 ppmv corrected to 3% oxygen in the exhaust gas.
- 2.7 Visible emissions shall not exceed 10 percent opacity from any exhaust stack, averaged over a six-minute time period, as measured by Title 40 CFR, Part 60, Appendix A, Method 9. No visible emissions shall be allowed beyond the property line.
- 2.8 The exhaust stack for the boiler shall be at least 25 feet (7.62 meters) from ground level. Internal stack diameter shall be no greater than 24 inches.
- 2.9 The following information shall be recorded for the boiler:
  - 2.9.1 Date, time and durations of each boiler malfunction, and the corrective actions taken in response to each malfunction.

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2.9.2 Date, time and duration of each use of fuel oil. And, the quantity (in gallons) of fuel oil per use.

**3 3 – 1850 BHP Standby Generators**

Legal Authority: The three 1850 BHP Cummins power generators, qualified as new sources of air contaminants under WAC 173-400-110, May 20, 2009, and new sources of toxic air pollutants under WAC 173-460-040, May 20, 2009. These emission units were reviewed under the legal authority of RCW 70.94.152, and the applicable rules and regulations adopted thereunder.

- 3.1 The generators shall comply with all federal laws and regulations, including Title 40, CFR, Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and Title 40 CFR, Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
- 3.2 This source is limited to the installation and operation of three 1850 BHP Cummins 1250DQGAA diesel-fired generators. Replacement of failed engines with like engines (same manufacturer and model family) or equivalent engines requires notification prior to installation.
- 3.3 All engines used to power the generators shall be certified to conform to Title 40 CFR, Part 89, Tier 2 standards for non-road engines.
- 3.4 Each engine is limited to 500 hours per 12-month period of operation. (Note: Each engine will be operated approximately 25 hours per year for testing and maintenance operation.)
- 3.5 Each exhaust stack shall vent vertically without obstruction, at a minimum height of 35.26 feet (10.75 meters) above the ground level at the base of the engine.
- 3.6 Engines shall be fired exclusively with fuel oil that meets specification of ultra-low sulfur No. 2 distillate fuel oil (less than 0.0015 weight percent sulfur).
- 3.7 The engines shall be operated only for testing, maintenance, and during period of line power unavailability. In no circumstance shall the generator provide power to the grid or to another entity.
- 3.8 Each engine shall be equipped with a properly installed and maintained non-resettable hours meter.
- 3.9 The following information shall be recorded:
  - 3.9.1 Fuel receipts with sulfur content for each delivery to the facility.
  - 3.9.2 Hours of operation for each standby generator, including reason for operation.

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- 3.9.3 Upset condition log, that includes date, time, duration of upset, cause, and corrective action.
- 3.9.4 Date, time and duration of each use of fuel oil. And, the quantity (in gallons) of fuel oil per use.
- 3.10 Permittee will provide written notice within 10 days of initial startup of each generator. Notice will contain the serial number of each engine and generator, the engine build date, and the first date of on-site operation.

**4 Operation and Maintenance**

- 4.1 Permittee shall follow all recommended installation, configuration, operation, and maintenance provisions supplied by the permitted units' manufacturers.
- 4.2 The source will be operated and maintained in accordance with a site-specific operation and maintenance (O&M) manual, to be prepared by the permittee. The O&M manual shall be updated to reflect any modifications to the source or operating procedures. Failure to follow the requirements of the O&M manual, or the adequacy of the O&M manual, may be considered proof that the equipment was not properly operated and maintained. The manual shall reflect standard operating procedures to be followed by all equipment operators, including a description of normal operating parameters, a maintenance or inspection schedule for each emission unit, monitoring and recordkeeping requirements and procedures, symptoms of abnormal unit operation, and corrective actions to be followed in case of malfunction.
- 4.3 In accordance with WAC 173-400-101, the O&M manual shall be reviewed and updated by the source owner or operator at least annually. O&M records shall be available for inspection by Ecology, organized in a readily accessible manner, and retained for at least five (5) years.
- 4.4 If visual inspection, public complaints, or other information indicates that excessive emissions are occurring, the permittee shall take immediate steps to bring the affected emission unit(s) back into compliance with the opacity limitation and other emission limits contained in this Order.
- 4.5 It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order.
- 4.6 The permittee shall keep records of complaints received from the public, Ecology, or any other entity. Any complaints resulting from operation of the permitted emission units shall be promptly assessed and addressed. A record shall be maintained of the permittee's action to investigate the validity of the complaint and what, if any, corrective action was taken in response to the complaint. Ecology shall be notified within three (3) days of receipt of any complaint.

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- 5.1 When conditions warrant, Ecology may order performance testing for any of the regulated air contaminants identified in this Order, in accordance with EPA or other Ecology approved methods. All performance testing shall be performed by an independent testing firm. A test plan, including a description of the methods proposed, shall be submitted for Ecology's review at least 30 days prior to any performance testing. A written report shall be submitted to Ecology within 30 days after performance testing is conducted.
- 5.2 Sampling ports and platforms for performance testing must be provided by permittee. The test ports must meet the requirements of Title 40 CFR, Part 60, Appendix A, Method 1. Adequate permanent and safe access to the test ports must be provided.
- 5.3 The permittee shall keep records of all emission testing conducted on the permitted emission units. The requirements for performance testing contained in this subsection are in addition to any source testing required pursuant to other subsections of this approval and in addition to any source testing required pursuant to WAC 173-400-105.

**6 General Conditions**

- 6.1 **Registration:** Period emissions inventory and other information may be requested by Ecology. Information will be submitted within 30 days of receiving the request, unless otherwise specified. All fees will be paid by the date specified.
- 6.2 **Discontinuing Operations:** It shall be grounds for rescission of this approval if physical operation is discontinued for a period of eighteen (18) months or more. Ecology may extend the 18-month period upon a satisfactory showing that an extension is justified.
- 6.3 **Compliance Assurance Access:** Access to the source by representatives of Ecology or the EPA shall be permitted upon request. Failure to allow such access is grounds for enforcement action under the federal Clean Air Act or the Washington State Clean Air Act, and may result in revocation of this Approval Order.
- 6.4 **Availability of Order and O&M Manual:** Legible copies of this Order and the O&M manual shall be available to employees in direct operation of the diesel electric generation equipment, and be available for review upon request by Ecology.
- 6.5 **Equipment Operation:** Operation of the emergency generator and related equipment shall be conducted in compliance with all data and specifications submitted as part of the NOC application and in accordance with the O&M manual, unless otherwise approved in writing by Ecology.
- 6.6 **Modifications:** Any modification to the generator, or engine and related equipment's operating or maintenance procedures, contrary to information in the NOC application,

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shall be reported to Ecology at least 60 days before such modification. Such modification may require a new or amended NOC Approval Order.

- 6.7 **Activities Inconsistent with the NOC Application and this Approval Order:** Any activity undertaken by the permittee or others, in a manner that is inconsistent with the NOC application and this determination, shall be subject to Ecology enforcement under applicable regulations.
- 6.8 **Obligations under Other Laws or Regulations:** Nothing in this Approval Order shall be construed to relieve the permittee of its obligations under any local, state or federal laws or regulations.

Authorization may be modified, suspended or revoked in whole or part for cause including, but not limited to the following:

- a. Violation of any terms or conditions of this authorization;
- b. Obtaining this authorization by misrepresentation or failure to disclose fully all relevant fact.

The provisions of this authorization are severable and, if any provision of this authorization, or application of any provisions of their circumstances, and the remainder of this authorization, shall not be affected thereby.

**YOUR RIGHT TO APPEAL**

You have a right to appeal this Order to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do the following within 30 days of the date of receipt of this Order:

- File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this Order on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

**ADDRESS AND LOCATION INFORMATION**

Street Addresses	Mailing Addresses
<b>Department of Ecology</b> Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	<b>Department of Ecology</b> Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608

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**Pollution Control Hearings Board**

111 Israel RD SW  
STE 301  
Tumwater, WA 98501

**Pollution Control Hearings Board**

PO Box 40903  
Olympia, WA 98504-0903

DATED at Yakima, Washington, this [date] Day of [month], [year].

Reviewed by:

PROPOSED DECISION

Lynnette A. Haller, PE  
Air Quality Program  
State of Washington  
Department of Ecology

Approved by:

PROPOSED DECISION

Susan M. Billings  
Section Manager  
Air Quality Program  
State of Washington  
Department of Ecology